

Mining News of the Great Southwest

MINES ACTIVE IN KINGMAN CAMPS

Tennessee Mine Is Being Unwatered—Many Improvements Made.

Kingman, Ariz., Feb. 23.—Up to the present time the Tennessee mine, which has been the center of interest in the county since its purchase by the Needles Mining and Smelting company six weeks ago. Both a pump and a skip have been worked almost continuously since that time, but because of surface waters getting into the old stopes, some of which had been worked nearly to the surface, and also considerable caving in the shaft, only about 100 feet of the entire 600 feet of shaft are clear.

The Tennessee ores, sulphides of lead, zinc and iron, are desirable as fluxing ores because of the last named metal, and it will furnish the bulk of iron for the company's enlarged smelter at Needles. In addition there are large shoots of zinc ore as wide as 10 feet in some of the levels, which were left standing when the mine was in operation before. The old stopes are also filled with ore of this character and they will be drawn and shipped to the concentrating and separating plant at Needles.

Midnight Mine. In the Midnight mine, which has been under bond to the White company of Lima, Ohio, since December 1, four feet of low grade sulphide ore carrying copper, lead, zinc and silver were cut on the east 200 foot level. The ledge is now exposed for a width of 14 feet. Stringers of ore are also being encountered in the west end of the same level. The White company, of which Dan S. Richards is manager and Walter Fellows superintendent, has bought the Fairview zinc prospect near the Midnight or Tom Graves and John Marshall, and work on a wagon road and sinking have already been started.

To Erect Mill. Supt. M. A. Moore of the Dixie Queen mine in the Virginia district, has returned from Indianapolis, where in a conference with the principal owners it was decided to erect a five stamp mill with which to further demonstrate the mine. While east he ordered a three-ton automobile truck to be used for the 20 mile haul from Chicago, and the performance of the first freight automobile in the country will be watched with interest.

Cerberus Camp. The Twins and Champion mines, owned by the Needles Mining and Smelting company, are being equipped with 25 horse power gasoline hoists.

At the "C. O. D." mine preparations are now in full swing for the resumption of mining and milling. Supt. McLaughlin has had 50 men at work on the roads. He has completed his camp and is now getting the mill into shape.

On the Silver Legend. Prospect near the C. O. D. mine W. D. Grannis found two feet of lead-silver ore, which assays 47 percent lead and 116 ounces in silver.

Gold Road Development. Plans for development in the Gold Road mine include the driving of a cross-cut tunnel from the 500 foot level to the South Gold Road ledge. This tunnel will serve the double purpose of prospecting for ore and developing water, which rises to within 20 feet of the surface in a shaft on the South Gold Road ledge, though the latter is fully 100 feet higher than the Gold Road proper. All water for the town and mine is at present pumped from the east side of the range, a distance of nearly four miles.

The mill is treating about 225 tons of ore per day most of which is coming from the 500 foot stopes, though some mining has been started on the 700, where a fine grade of ore is reported. Superintendent Phillips is considering the addition of either another tube mill or a Chilian so as to bring the capacity of the plant to 250 tons.

Ontario District. Chas. Grimes, of Pasadena, president of the Tom Reed company, accompanied by Benj. Kinschaker, of Los Angeles, and Henry Dwin, of Kingman, were present at the starting of the new Tom Reed mill recently. Only 10 stamps are in operation, but it is expected that another ten will be ready in a few weeks.

At a depth of 180 feet there was found in the main shaft of the Nil Desperandum No. 2 three feet of ore averaging \$20 in gold. About 25 feet of drifting or either side of the shaft show the ore to be continuous and holding its grade.

RIO TINTO COPPER TO DOUBLE SMELTER CAPACITY.

A contract for doubling the capacity of the smelter for the Rio Tinto copper mines at Terrazas, south of El Paso and north of Chihuahua, has been let, and work will be started at once. A 25-ton converter will be installed. The enterprise is controlled by Corrigan, McKinney & Co., of Cleveland, O.

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The blending of WHEAT, OATS, RICE and BARLEY into a food is a new creation by Dr. Price, the Pure Food Producer. It is one of the best breakfast or every day foods ever made. Dr. Price believes that the enlightened public accepts nothing permanently but quality. Once this food is eaten it will be appreciated. Ask your grocer.

NEW MILL PLANNED FOR HILLSBORO DISTRICT; MANY MINES ARE ACTIVE

Bonanza Mill Is Working Steadily—El Pasoans Are Working Small Force in the Camp.

The mining camp of Hillsboro or Percha Hills, New Mexico, is on the eve of a substantial boom. There is more activity in that district than for many years. Three companies are actively at work doing development work, and two of them are regular shippers to the smelters, with a probability of several more joining the ranks in the near future.

The principal operations are going on under the management of the Sigma Development company, which is backed by the contracting firm of L. L. Summers & Co., of Chicago, which is operating the Wicks Gulch mines under bond and lease. Last year it began sinking its shaft from the 225 foot level and has reached a depth of over 210 feet, and will continue sinking to the depth of 500 feet, which is as deep as it can go with the present hoist. If the showing of good ore continues it will install a larger hoist and continue to a much greater depth. During the development work so far prosecuted the company has uncovered and stored several thousand tons of ore averaging \$12 a ton in gold which will be treated in the mill, to be built as soon as the plans are settled on. The shaft is now being sunk at the rate of a foot a day. About 40 sacks of ore are being taken

out, running \$125 a ton, and the shaft is paying for itself. About 25 sacks make a ton of this ore. No divorcing is required owing to the firm nature of the ground, the shaft being an incline following the vein. The ore is of two kinds; one a quartz streak, carrying gold, silver and copper, and the other a porphyritic rock carrying copper.

The latter is not shipped. The ore occurs in more or less perpendicular lenses, which increase in size as depth is reached.

Other Properties. The mill on the Bonanza and American group of claims is running steadily and a large amount of milling ore is in sight. Manager Granville is planning on installing power drills. The owners are Kansans.

The Trio Mining company, composed of El Paso and Los Angeles capitalists, is working a small force of men, developing the claims and taking out some high grade ore.

The McKinley group of claims is being worked under bond and leased by Tom Jones and the Garfield and Butler claims are to resume operations soon. The mines of the old Sierra Consolidated recently purchased by the Statehood Mines company, will be unwatered and active work be commenced.

W. F. Hall has found ore in the limestone hills north of Hillsboro carrying from 3 to 26 percent vanadium. Rare metals are being prospected for around the camp, such as platinum, tin, nickel and cobalt, and the formation is said to be favorable to their presence.

Messrs. Hatcher of California have taken up the old placers east of Hillsboro and intend to do some sluicing when the rainy season comes.

OIL IS DISCOVERED IN SULPHUR SPRINGS VALLEY OF ARIZONA

EL PASOANS ACTIVE IN ARIZONA CAMP

Engineer Recommends New Main Shaft for the Peacock Mine.

J. A. Bennett, of El Paso, president of the Peacock Copper Mining company, and a member of the board of directors of the Texas-Arizona Mining company, has just received reports from Harry L. Marmion, consulting engineer of these two companies, on the mines situated in the Johnson district, the Cochise mining district of Arizona.

Speaking of the Peacock copper group, the engineer says: "The development that has been carried on in the past year is as follows: Sinking the shaft on the Gingham No. 2 claim to a total depth of 110 feet, a crosscut at the 60 foot level of 27 feet, and drift on the first vein encountered in the crosscut 33 feet. This is one of the many veins encountered which crosses the property from northwest to southeast."

"The shaft goes down at an angle of 70 degrees in a quartz rock with some calcite, showing some oxide and sulphide copper ores throughout the rock. In the beginning only high grade streaks were followed, which left the shaft irregular."

"I recommend the starting of a new main work shaft at a distance of 325 feet northerly from the present shaft, which should be a double compartment shaft, and will cut the ore body at a depth of 450 feet, assuming the ore body dips regularly, a crosscut to be run south at the 200 foot level until the vein is cut from wall to wall."

C. & A. PUSHES WORK AT COURTLAND

Great Western Company Increases Shipments to El Paso Smelter.

Courtland, Ariz., Feb. 23.—The option held by the Calumet & Arizona mining company on the "Maid of Sunshine," and "King Solomon," two claims of the Leadville Mining company, expired without the company taking them up.

The C. & A. is pushing work at its Germania shaft, and as soon as the ore bins are completed will commence shipping the ore now blocked out, over a year's shipping being in sight. President Holmes of the Leadville company is quoted as saying that his company will now construct a smelter on its property west of Courtland and treat its ore.

A number of C. & A. officials have visited the district recently, including general manager L. W. Powell, secretary Gordon R. Campbell and Capt. Hoatson. Secretary Campbell states that the company has over \$5,000,000 of surplus funds. It has spent over \$1,600,000 in the development of Courtland and other outside properties.

"We are finding good ore in Bisbee now 1000 feet deeper than it was believed to have existed 10 years ago. The physical and chemical conditions of the company are better today and its prospects for the future are brighter than at any time in the past five years," he said.

The Great Western copper company has increased its shipments to the El Paso smelter to 100 tons daily, and much high grade ore is being opened up on the first two levels. Many beautiful specimens of malachite and azurite are being found in removing this ore. Electric pumps have been installed at the two shafts of this company.

The Gold Queen company has its Frone shaft now down 225 feet and the values continue good. The company will install a gasoline hoist to replace the horse which is now in use.

DOS ESTRELLAS HAS BIG OUTPUT

El Pasoan to Develop Property in the Guaynopa District.

The Dos Estrellas mine in El Paso district yielded profits in 1909 of \$425,635 pesos. In December, which was one of the best months of the year, the ore handled in the two reduction plants amounted to 40,970 tons. The Dos Estrellas is a new mine, and its success recalls the fact that in the early days of the Dos Estrellas company the stock which had a par value of 100 pesos, and which later reached a value of 10,000 pesos, sold for a song at first.

The property was located by Francisco J. Fournier, a French mining engineer, in 1900, and the company formed with a capital of 300,000 pesos, divided into 3000 shares. Two adits were started but it was not until three years later that these cut the vein, and in the meantime it was with difficulty that the enterprise was sustained.

Three veins were developed, and one of these, La Veta Nueva, yields ore running as high as 20,000 pesos a ton. The ore body is being held as a reserve.

Fournier's dividends from Dos Estrellas stock, the bulk of which he holds, have made him a multi-millionaire. James P. Taylor, of El Paso, once owned the ground covered by the Dos Estrellas and other properties which he sold a number of years ago for a good round sum. He is at present associated with Fournier in the ownership of some rich copper mines in the Guaynopa district, west of Madera. In the western part of Chihuahua, He expects Mr. Fournier to be in El Paso shortly and then active operations will begin on the mines.

MORENCI DISTRICT BEING NEGLECTED

It is the Oldest in That Section and Has Valuable Ore Bodies.

According to the Morenci Leader, the over-enthusiasm regarding the Globe and Warren copper districts has led the mining journals to neglect to give the Clifton-Morenci district its proper credit and square deal. "Few districts," it says, "can boast such a fine dividend as the Clifton-Morenci group of mines, and permanent producers as the Arizona, Shannon and Detroit copper companies. What mining district of Arizona can boast of three big smelters and five operating railroads? Such a case here and there is a probability of at least two more smelters in the immediate future."

In area the Clifton-Morenci district has no equal, being more than twice as large as any other copper mining district in Arizona.

In early days, and before the discovery of the Globe and Warren districts, the Clifton-Morenci district commenced to produce copper and has been producing ever since—each year increasing its production. Many years ago the ore was taken only from the surface, being rich. The experts then predicted that the ore would play out at depth. But these predictions were not correct, as depth has increased the tonnage enormously of low grade ore. The future ore bodies will probably be sulphides.

One great advantage in this district is the total absence of water in the mines, requiring less engineering and saving the operators thousands of dollars in pumping plants.

CALIFORNIA-PARADISE DEVELOPMENT. Bisbee, Ariz., Feb. 23.—Development work is being pushed as fast as possible on the property of the California and Paradise Mining company. The incline shaft on the Leadville claim reaches a depth of 120 feet. Two drifts, east and west, were driven for 100 and 65 feet, respectively, while a winze was sunk to a depth of 35 feet at a distance of 65 feet east of the shaft. Two shafts, 50 and 35 feet deep, were sunk on the Agriola claim, while another shaft, 20 feet deep, and a tunnel, 40 feet long, are on the North Cash.

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NEW SCHEME FOR SMELTER WORK

New Clinker Device Makes Work of Handling the Slag Easier.

A new scheme in smelting is being inaugurated in the "Four Co's" smelter, by the installation of a clinker device, which is a contrivance whereby flux dust will be mixed with the slag from the reverberatory furnace in the proportion of 25 percent of flux dust to 75 percent of slag.

The slag is valuable as a flux, and two benefits will be derived from the new system. First it will prepare the slag for the blast furnace flux, making it easy to recover the values and also to handle it. The other benefit is the reduced cost of handling it.

Twenty-five percent of the flux dust added to a ladle of slag will cause it to boil up and form a foam, which when it cools, resembles the clinker found in the common kitchen stove. The volume will be increased seven times and the clinkers will run through the smelter and the values be recovered.

The plant consists of a series of slag pots into which the molten slag and the flux dust will be poured simultaneously, one pot at a time, and the mixture will be carried to the foam and will run down the hillside, where it will be recovered and loaded into the cars and run through the smelter again. A similar method is being experimented on at the Copper Queen smelter at Douglas and it is believed successfully at the Saco, Arizona, smelter.

MADERA COMPANY TO PUSH DEVELOPMENT.

Bisbee, Ariz., Feb. 23.—According to a statement from M. J. Patton, city assessor, who is just back from Tucson, the Madera Mining company has decided to push development work on its property. Mr. Patton has brought here with him several specimens of ore, which show values in copper and gold. The Madera Mining company's property is located in the Santa Rita mountains, in Santa Cruz county, Arizona, and consists of 16 claims. The rock on the claims is granite and rhyolite, and the veins appear to cut through the formation without following any contact.

AMERICANS TO DEVELOP MINES NEAR VELARDENA

Tucson, Feb. 23.—A party of mining men left the city in company with Henry M. Wells, to examine properties in the San Diego district near Velardena. One of the principal mines to be examined is the Blanco, the oldest of that section.

This property was worked for a number of years before the Velardena camp came into such prominence. It is now held under option by Americans of Tucson who are contemplating some extensive development work.

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We will send you a quantity of these tablets free, that their power to cure may be proven to you. Thousands upon thousands of people are using these tablets for the aid and cure of every known stomach disease. Know what you will into your stomach, and use discretion in doing so.

Stuart's Dyspepsia Tablets contain fruit and vegetable essences, the pure concentrated tincture of Hydrastis, Golden Seal, which tone up and strengthen the stomach lining, and increase the flow of gastric and other digestive juices; Lactose (extracted from milk); Nux, to strengthen the nerves controlling the action of the stomach and to cure nervous dyspepsia; pure aseptic Pepsin of the highest digestive power and approved by the United States Pharmacopoeia.

One of the ablest professors of the University of Michigan recently stated that this Pepsin was the only aseptic pepsin he had found that was absolutely pure—free from all animal impurities; Bismuth, to absorb gases and prevent fermentation. They are deliciously flavored with Concentrated Jamaica Ginger—in itself a well known stomach tonic.

TO WORK MINE IN THE ORGANS

Bennett Consolidated Is Recognized—Wrok to Start at Once.

At a recent meeting of the old Bennett Consolidated Mining company, held at the mine in the Organ mountains, a reorganization was effected under the name of the Bennett-Stephenson Mining and Milling company, and the following new officers were elected: President, S. Lehman, of Newton, Kan.; vice president, O. Joeliff; secretary, J. J. McCullough, and treasurer, C. E. Gill. The new company will take over the mines and begin operations soon, and it is stated it will employ 300 men and start the concentrators.

The property had been in the hands of a receiver.

NEW BISBEE COMPANY PLANS TO WORK CLAIMS.

Bisbee, Ariz., Feb. 23.—The El Corona Mining company has been incorporated by Bisbee capitalists. E. G. Blackwell has been elected president; O. G. Wager, vice president, and H. S. Hillman, secretary and treasurer. The property is located in the Ures district, 25 miles from the Santa Rosalia mine, and consists of 43 claims. Several gold and silver bearing ledges are plainly visible on the surface, and the grounds present the same characteristic features as the Santa Rosalia mines. The company has decided to start immediately the sinking of a shaft and to drive a few tunnels.

HALF MILLION FOR MEXICO SMELTER

Compania Minera de Naica Shipping 4000 Tons of Ore a Month.

The Compania Minera de Naica, the principal concern of the Naica district, in southern Chihuahua will increase its reserve fund from 500,000 to 700,000 pesos, and devote the money to the erection of a 600 ton smelter at Concho, a station on the main line of the National Railways.

The plans include a total expenditure of 1,000,000 pesos. The company is producing from 300 to 400 tons of ore a day, and shipping over 4000 tons a month.

CHINO REPORT SHOWS BIG INCREASE IN TONNAGE

The preliminary statement of the affairs of the Chino Copper company for the month of January, based on the report of superintendent Sully, has just been sent out and shows an increase in the tonnage of partially developed ore of 3,487,961 tons, making the total and partially developed ore 15,753,000 tons. This increase arises partly through the fact that the drilling closed in the gap between December work and that previously done in the No. 7 Hearnst shaft section. D. C. Jackling, vice president and general manager, and R. C. Gemmel, assistant general manager, are visiting the properties at the present time.

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Climate is ideal. Trade winds temper summer heat, while nearness to ocean prevents frost and mean range of temperature is but 30 degrees, 60 to 90 degrees Fahrenheit. Elevation 20 to 40 feet above sea level.

Property lies about fifteen miles below the Bamos, or Naranjo Stations of the R. Y. C. and Pacific Railway, to which a spur track will be built, affording the best and lowest rates for freights and fares.

To those buying now, these lands will be sold at bed rock price of \$20.00 U. S. Currency per acre, payable in three instalments, one-third cash, balance in one and two years with 8% per annum interest on deferred payments. All of the water required for irrigation of each tract will be furnished by the Bebelama Water Company at price of \$2.00 U. S. Currency per acre per annum perpetually.

General Henry Ide Willey, the distinguished Irrigation Engineer, in his report upon this project, states that: "In all respects it presents phenomenally favorable features, nothing equaling it has ever been found by me in all my extensive experience."

The land is divided into tracts of about 60 acres each, or 250x1000 meters, and not less than 30 acres can be bought until the contemplated Town Sites are segregated.

For information concerning this land apply to

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